INTERNATIONAL SEARCH REPORT

Intentional application No. PCT/CA2005/000285

A. CLASSIFICATION OF SUBJECT MATTER IPC(7): G01N 27/20, G01N 17/00, B02C 23/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC(7): G01N, B02C (using keywords)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used) Canadian Patent Database, Delphion, Esp@cenet, IEEE, US Patent Database (USPTO), WEST.

Keywords: cavity, circuit, conductive, erosion, filler, lifter, loop, mill, optic, sensor, substrate, trace, wear.

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate	re, of the relevant passages Relevant to claim No.			
Α	US 4655077 (PURVIS ET AL.) 7 April 1987 col. 1, line 65 - col. 2, line 36 col. 3, lines 24-30, 53-58 col. 4, lines 8-16 col. 4, line 56 - col. 5, line 2 claim 1 abstract	1, 5, 9, 11, 14, 21, 25, 26, 29, 31, 44, 55, 56, 80			
A	US 4884434 (MITSUBISHI CABLE INDUSTRIES LTI col. 2, lines 16-65 col. 3, lines 7-17 claims 1, 2 abstract figs. 1, 3, 4	D.) 5 December 1989 1, 5, 7, 11, 21, 25, 30, 31, 47, 55, 56, 72, 80			
[X] Furthe	r documents are listed in the continuation of Box C.	[X] See patent family annex.			
"A" docu	ial categories of cited documents: ment defining the general state of the art which is not considered of particular relevance or application or patent but published on or after the international date	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone			
"L" docu	nent which may throw doubts on priority claim(s) or which is to establish the publication date of another citation or other al reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art			
	ment referring to an oral disclosure, use, exhibition or other means ment published prior to the international filing date but later than riority date claimed	"&" document member of the same patent family			
Date of the	actual completion of the international search	Date of mailing of the international search report			
19 May 2005 (19-05-2005)		22 June 2005 (22-06-2005)			
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INTERNATIONAL SEARCH REPORT

International application No. PC17CA2005/000285

tegory*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5758970 (AUBERT) 2 June 1998 col. 1, line 30 - col. 2, line 25 col. 3, lines 11-20, 29-34, 51-56 claim 1 abstract	1, 11, 25, 26, 31, 37, 44, 56
A	US 6510729 B2 (MAGOTTEAUX INTERNATIONAL) 28 January 2003 col. 1, lines 7-37 col. 1, line 58 - col. 2, line 11 col. 2, line 44 - col. 3, line 11 claim 1	1, 11, 21, 25-28, 31, 32, 34, 44, 56, 58

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PC1/CA2005/000285

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